



Gregg Galecki, Environmental Eng. HCR 35, Box 380 Helper, UT 84526 (435) 448-2636 - Office (435) 448-2632 - Fax

September 10, 2009

Mr. James D. Smith
Permit Supervisor
Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84114-5801

RE: Response to Task #3356 - Application to Reduce Water Monitoring requirements at Selected Water Monitoring Sites, Canyon Fuel Company, LLC, Skyline Mine, C/007/005

Dear Mr. Smith:

Please find enclosed with this letter Skyline Mine's application to reduce water monitoring commitments on various water monitoring sites within the permit area. This submittal includes one (1) redline-strikeout version for Ms. April Abate's review, and eight (8) clean copies of modified text, and associated plates.

Plates 2.3.6-1 and 2.3.6-2 have been modified to denote both current and historic monitoring sites. Tables 2.3.7-1 and 2.3.7-3 have been modified to reflect the reduction in water monitoring sites, and to add Oil and Grease analysis to site CS-11 to cover the analysis from CS-4. A sentence in Section 2.4 – Surface Water Hydrology was added to reflect the change in spacing of the NL sites. Concerning abandonment of Well 99-28-1, Section 2.2.11 of the currently approved M&RP commits to well abandonment per State regulations by a licensed driller. The State has been contacted, and abandonment is scheduled for late September 2009. The abandonment log will be filed with the Division of Water Rights.

Also attached to this cover letter are completed C1 and C2 forms.

If you have any questions regarding this information, please give me a call at (435) 448-2636.

Sincerely:

Gregg A. Galecki

Canyon Fuel Company, LLC.

Environmental Engineer - Skyline Mines

Dregg A. Saluhi

Enclosures

File in:

□ Confidential

Shelf

For additional information

Refer to Record No CO 53 Date 69/0200 In C/00/2005 2007, Successful

DIV. OF OIL, GAS & MINING

APPLICATION FOR COAL PERMIT PROCESSING

Permit Change New Permit Renewal Exploration	Bond Release Tr	ansfer 🗌 😈 💮
Permittee: Canyon Fuel Company, LLC		
Mine: Skyline Mine	Permit l	Number: C/007/005
Title: Reduced Water Monitoring		
Description , Include reason for application and timing required to implement:		TD 1 1100 TC
Reduced Water monitoring requirements at selected water mo	onitoring sitesd. Respons	onse to Task #3356.
Instructions: If you answer yes to any of the first eight (gray) questions,	this application may requ	tire Public Notice publication.
Yes ⋈ No 1. Change in the size of the Permit Area? Acres: Yes ⋈ No 3. Does the application include operations outside a pre Yes ⋈ No 4. Does the application include operations in hydrologi Yes ⋈ No 5. Does the application result from cancellation, reduct Yes ⋈ No 6. Does the application require or include public notice Yes ⋈ No 7. Does the application require or include ownership, c Yes ⋈ No 8. Is proposed activity within 100 feet of a public road Yes ⋈ No 9. Is the application submitted as a result of a Violation Yes ⋈ No 10. Is the application submitted as a result of other laws Explain: Yes ⋈ No 11. Does the application affect the surface landowner or Yes ⋈ No 12. Does the application require or include underground	Order? DO# eviously identified Cumula c basins other than as curr ion or increase of insurance publication? ontrol, right-of-entry, or coor cemetery or 300 feet of a? NOV # or regulations or policies c change the post mining la design or mine sequence	ative Hydrologic Impact Area? rently approved? ce or reclamation bond? ompliance information? f an occupied dwelling? ? and use? and timing? (Modification of R2P2)
Yes No 13. Does the application require or include collection are yes No 14. Could the application have any effect on wildlife or yes No 15. Does the application require or include soil removal 16. Does the application require or include vegetation no 17. Does the application require or include construction No Yes No 18. Does the application require or include water monito Yes No 19. Does the application require or include certified des Yes No Yes No 20. Does the application require or include subsidence of Yes No Yes No 21. Have reclamation costs for bonding been provided? Yes No 22. Does the application involve a perennial stream, a solution yes No 23. Does the application affect permits issued by other solutions.	nd reporting of any baseling vegetation outside the current vegetation outside the current vegetation outside the current vegetation or placement? In modification, or removal oring, sediment or drainage igns, maps or calculation control or monitoring?	ne information? rrent disturbed area? regetation activities? l of surface facilities? ge control measures?
Please attach four (4) review copies of the application. If the mine is (5) copies, thank you. (These numbers include a copy for the Price Field Office) I hereby certify that I am a responsible official of the applicant and that the information cor and belief in all respects with the laws of Utah in reference to commitments, undertakings,	stained in this application is true	
Print Name Subscribed and sworn to before me this 10 day of Sept . 2009	ign Name, Position, Date CHENEVAL N	Janager 3/10/09
Notary Public My commission Expires: Attest: State of County of State of St	NOTA 100 I HUN	THLEEN ATWOOD RYPUBLIC-STATE OF UTAH NORTH 200 WEST #13 ITINGTON, UT 84528 IM. EXP. 11-12-2011
For Office Use Only:	Assigned Tracking Number:	Received by Oil, Gas & Mining RECEIVED SEP 1 4 2009 DIV. OF OIL, GAS & MINING

APPLICATION FOR COAL PERMIT PROCESSING Detailed Schedule Of Changes to the Mining And Reclamation Plan

Plan OPY

Permit		uel Company		t Number:	C/007/005
Mine:	Skyline Mine			(Number:	<u>C/00//003</u>
Title:	Reduced wate	r Monitoring	at Selected Sites		
applicat of conte	ion. Individually nts, section of the	list all maps ar plan, or other	to the Mining and Reclamation Plan, which is required as and drawings that are added, replaced, or removed from the information as needed to specifically locate, identify and and drawing number as part of the description.	e plan. Inclu	de changes to the table
			DESCRIPTION OF MAP, TEXT, OR MATERIA		
Add	□ Replace	Remove	Section 2.3, Table 2.3.7-1(pages 2-36, 2-36a, 2-36b), T	able 2.3.7-3 (page 2-38)
Add	□ Replace	Remove	Section 2.4, page 2-44b		
Add		Remove	Plate 2.3.6-1 - Location of Hydrologic Monitoring Stat		
Add		Remove	Plate 2.3.6-2 - North Lease Subsidence Hydrologic Mo	nitoring Poin	ts
Add	Replace	Remove			
Add	Replace	Remove	manufacture of the state of the		
Add	Replace	Remove			
Add	Replace	Remove			
☐ Add	Replace	Remove			
☐ Add	Replace	Remove			
Add	Replace	Remove			
Add	I ☐ Replace	Remove			
☐ Add	Replace	Remove			
Add	Replace	Remove			
Add	Replace	Remove			
Add	l Replace	Remove	and the little and the same of		
Add	l Replace	Remove			
Add	l Replace	Remove	The State of the S		
☐ Add	d Replace	Remove			
Add	d Replace	Remove			
Ad	d Replace	Remove	The state of the s		
Ad	d Replace	Remove			
☐ Ad	d Replace	Remove			
☐ Ad	d Replace	Remove	The state of the s		
Ad	d Replace	Remove		7 11	
☐ Ad	d Replace	Remove	the state of the s		
☐ Ad	d Replace	☐ Remove			
Ad	d Replace	Remove			
Minin	g and Reclamati	on Plan.	cion required for insertion of this proposal into the clean copies of the submittal.	Received	RECEIVED SEP 1 4 2009
				DIV	OF OIL, GAS & MINING

Table 2.3.7-1
Comprehensive Water Quality Analytical Schedule
(Surface and Ground Water Stations)

	1st Quarter										2n	d ² /	3rd ³	/ 4t	h Q	uart	ers	-		
Sample Site	Lab Analysis*a	Field parameters only*1	Monthly Flow	Dissolved Oxygen	TDS,TSS, T-P	0 & G		Lab Analysis*a	Otrly Field parameters* only	Quarterly Flow	Monthly Flow	Monthly Seasonal Flow	Quarterly Water Level Only	Dissolved Oxygen	TDS,TSS, T-P	0 & G	Carbon 14	Trittium	Deuterium	Oxygen 18
							Str	eam	าร											
CS-3								Х								X				
CS-4 (DELETE)								Х								X				
CS-6	Х			Х				Х						Х						
CS-6 CS-7 (F-5) CS-8 CS-9 CS-10			-503						X	í Es		L								
CS-8		400							X							W B				6
CS-9								Х			100					10				
CS-10	ilayi,	3	1	30					X	210				T i						
CS-11								Х								×				
CS-12	Х							Х												
CS-13	Х							Х								1				
CS-14 CS-16	Х							Х												
CS-16	M	Try (117		19		X.		X		80	915				- 4	Ever	13		
CS-17					1919				X			18.19				JAN 1				
CS-18	111		Til.				- 1		X		100	23		188		7	-			
CS-19								х												
CS-20								X												
CS-21								Х												
CS-22										Х										
CS-23	00									X	EJ.	TUE								
MD-1			Х		X						X	100			X					
SRD-1			X								X									
F-9 (DELETE)			J. C.		DE				X		637	Х				100	H.U			Rai
F-10									X											
UP&L-10								Х												
VC-6	Х			Χ		Х		Х						Χ		Х				
VC-9	Х			Х		X		X						X		X				
VC-10		X			100				X											
VC-11			PUG							Х	111	20								i de
VC-12	110				18					X		52.0								
NL-1 through NL-42 (See Section 2.4.4)			AT III									x								

Table 2.3.7-1 Comprehensive Water Quality Analytical Schedule (Surface and Ground Water Stations) (continued)

		15	t Qı	uarte	er						2n	d ² /;	3rd ³	/ 4t	h Q	uarte	ers		-	
Sample Site	Lab Analysis* ^a	Field parameters only*1	Monthly Flow	Dissolved Oxygen	TDS, TSS, T-P	0&6		Lab Analysis*a	Qtrly Field parameters* only	Quarterly Flow	Monthly Flow	Monthly Seasonal Flow	Quarterly Water Level Only	Dissolved Oxygen	TDS,TSS, T-P	0 & G	Carbon 14	Tritium	Deuterium	Oxygen 18
						Str	ean	ıs (c	ont.)										
WRDS #1								Х								X				
WRDS #2								X								Х				
WRDS #3								Х								Х				
WRDS #4								Х								X				
EL-1																		Х		
EL-2																		Х		
			62 - 62				Sp	ring	s										П	
S10-1								Χ												
S12-1								Х												
S13-2									Х											
S13-7								Х												
S14-4									Х											
S15-3									X		55	100			0.5		100	X		
S17-2		1000						Х								E(9)	100		U U	
S22-5							117		Х				70.0							
S22-11									X										0 >	
S23-4		100							X								100		1000	
S24-1 Sulfur Spring									Χ									Х		
S24-12				v =					X											
S26-13									X				1111							
S34-12									X											
S35-8								\vdash	X											
S36-12	1000					1000			X						71					
2-413									X									Х		
3-290									X								- 01			
8-253									^									Х		100
WQ1-1		72							Х		U				10.0			^		
WQ1-39								х	^		- 1					0			TO I	
WQ3-6							-	X												
WQ3-26								x												
WQ3-20 WQ3-41								x		-										
WQ3-43	-							x		-								-		
	-																	-		
WQ4-12								x										i i		

Table 2.3.7-1 Comprehensive Water Quality Analytical Schedule (Surface and Ground Water Stations) (continued)

117 117 117	-	1:	st Qı	uart	er						2n	$d^2/$	3rd ³	/ 4t	h Q	uart	ers		Ų.	
Sample Site	Lab Analysis*a	Field parameters only*1	Monthly Flow	Dissolved Oxygen	TDS,TSS, T-P	086		Lab Analysis*a		Quarterly Flow	Monthly Flow	Monthly Seasonal Flow	Quarterly Water Level Only	Dissolved Oxygen	TDS,TSS, T-P	0 & G	Carbon 14	Tritium	Deuterium	Oxygen 18
							W	ells												
JC-1			X						Х		Х				X		Х	Х	Х	Х
JC-3			Х						Х		Х				X					
ELD-1			Х						-		Х									
W79-10-1B											- 44		Х							
W79-14-2A			The state of										Х				78			
W79-26-1													Х							24
W79-35-1A		16											Х				188			
W79-35-1B													Х						1515	
W2-1(98-2-1)													Х							
W20-4-1													Х		141					
W20-4-2													Х							
W99-4-1													Х							
W99-21-1						20			-	June	3 8		Х				- 1		15 0	
W99-28-1 (DELETE)		430		169-1				948				0.0	Х		nen		10		-41	
W20-28-1	1		Eg.		E.T								Х		V.		10		Ail	
91-26-1		ol si	ME		3							He.	Х		MI		511	NS.		2
91-35-1				Hg.						- 25		- 19	Х	15	1 2	MAI		415	118	
92-91-03					- 1			Х												

^{*} Field Measurements and Laborotory Analyses are defined in Table 2.3.7-2

^aField parameters will be taken in conjunction with samples collected for Lab Analyses

¹Sites with at least two (2) years of laboratory analysis data will be sampled once every five (5) years for the currently approved laboratory parameters in Table 2.3.7-2 beginning in 2010. If field parameter monitoring indicates any trending changes, regular laboratory analysis may be resumed until trend is adequately characterized.

²2nd Quarter sampling may extend to July 15 in years when spring snow conditions do not allow access before June.

³ Baseline Lab Analysis will be conducted every five (5) years beginning in 2010 in the 3rd quarter. (ie. Years 2010, 2015, 2020, etc.)

Table 2.3.7-1 Comprehensive Water Quality Analytical Schedule (Surface and Ground Water Stations)

	$\overline{}$	1.	st Q	uo et							25	a ² /	2 - 43	/ 46	h Qı	.ort				
		13	אניעו	uarti	at.						∠n	u /			11 (2)	uart	er S			
Sample Site	Lab Analysis* ^a	Field parameters only* ¹	Monthly Flow	Dissolved Oxygen	TDS,TSS, T-P	086		Lab Analysis* ^a	_	Quarterly Flow	Monthly Flow	Monthly Seasonal Flow	Quarterly Water Level Only	Dissolved Oxygen	TDS,TSS, T-P	0 & O	Carbon 14	Tritium	Deuterium	Oxygen 18
			_				Str	eam	IS						,—					
CS-3	_							X X								Х	<u> </u>		<u> </u>	
CS-6	X			Χ	*********	*******		X				********	*********	Х			20000000			
CS-7 (F-5)									X											
CS-8 CS-9									Х											
CS-10								X												
CS-11						******		**************************************	X		******					Х				
CS-12	Х	<u> </u>	-					X X X X			_	 			-	 ^	├	<u> </u>	-	
CS-13	x	-						⊱	-		_		-		-	-	\vdash		_	\vdash
CS-14	X		 					⊱	_	_	-			_	_					\vdash
CS-16				******	******	******		<u> </u>	Y		******	******	*******	*****				******	*****	
CS-16 CS-17									X											
CS-18									X											
CS-19	*********	********	********	***************************************	*******			X	###***********************************	*******	********	********	******				*********	*********	*******	
CS-20		†						X	\vdash		_			\vdash	_					
CS-21								X							T					
CS-22							·			Х										
CS-23										X										
MD-1			X		X						X				X					
SRD-1			X								X									
F-10									X											
UP&L-10								Χ												
VC-6	Х			X		Х		X						Х		Х				
VC-9	Х			Χ		X		X						Χ		Х				
VC-10		X							X											
VC-11										X										
VC-12										X										
NL-1 through NL-42																				
(See Section 2.4.4)												X								

Table 2.3.7-1
Comprehensive Water Quality Analytical Schedule
(Surface and Ground Water Stations)
(continued)

		1s	t Qı	uarte	er					_	2n	$d^2/3$	3rd ³	/ 4t	h Q	uart	ers			
Sample Site	Lab Analysis* ^a	rs only*¹	Monthly Flow	Dissolved Oxygen	TDS,TSS, T-P	O & G		Lab Analysis* ^a	Otrly Field parameters* only	Quarterly Flow		onal Flow	Quarterly Water Level Only	Dissolved Oxygen			Carbon 14	Tritium	Deuterium	Oxygen 18
						Str	eam	ıs (c	ont)										
WRDS #1								Х								Х				
WRDS #2								X								Х				
WRDS #3								X X								X				
WRDS #4								X								X				
EL-1																		Х		
EL-1 EL-2														l —				X		
							Sp	ring	s	<u> </u>					-	•				
S10-1							Ť	Х								T				
S12-1								$\frac{\hat{\mathbf{x}}}{\mathbf{x}}$							t	\vdash				
S13-2	\vdash							Ë	x							T				<u> </u>
S13-7	\vdash							Х	<u>^</u>	<u> </u>				\vdash						
S14-4						\vdash		$\stackrel{\sim}{}$	х	<u> </u>	 		-		\vdash	 	 	_		
S15-3	14	147.5							X							1		X		
S17-2								X								.				
S22-5									X									, 110		
522-11									X					37	H					
S23-4				97					$\hat{\mathbf{x}}$					100						100
S24-1 Sulfur Spring									X							STATE OF		X		
\$24-12	\vdash	_							x	 	 	-	_	-	 	\vdash		 ``	ļ	\vdash
S26-13	\vdash								X		-	_		\vdash	\vdash	\vdash	 	 		H
S34-12	\vdash	_						<u> </u>	X	-	-		_	-	<u> </u>	\vdash	_	-		<u> </u>
S35-8									x	-				 	 	 	 	-	_	
S36-12									X		2241				14, EP				2.07 k	
2413									X				-		, ,			X		
3-290					77				$\hat{\mathbf{x}}$											
8-253									<u>^</u>									X		
WQ1-1								2	X								- 1			
WQ1#39								Y	Δ_					1	-					
WQ3-6						4		X												
WQ3-26			-		-			X						\vdash	-	<u> </u>	-		<u> </u>	
WQ3-41	H		-					X			-	-	<u> </u>	<u> </u>	-	├				├
WQ3-41 WQ3-43	-		_					X	<u> </u>	<u> </u>	-	_	<u> </u>	<u> </u>	-	 		_	ļ	
WQ4-12								X	<u> </u>	<u> </u>	-	_	<u> </u>	<u> </u>	-	 				<u> </u>
VVQ4-12	ليا							Χ					<u> </u>		<u> </u>	<u> </u>		<u> </u>	<u> </u>	

Table 2.3.7-1 Comprehensive Water Quality Analytical Schedule (Surface and Ground Water Stations) (continued)

		15	t Q	uart	er						2n	d²/	3rd ³	/ 4t	h Q	uart	ers			
Sample Site	Lab Analysis* ^a	Field parameters only*1	Monthly Flow	Dissolved Oxygen	TDS,TSS, T-P	0 & G		Lab Analysis* ^a	Qtrly Field parameters* only	Quarterly Flow	Monthly Flow	Monthly Seasonal Flow	Quarterly Water Level Only	Dissolved Oxygen	TDS,TSS, T-P	0 % 0	Carbon 14	Tritium	Deuterium	Oxygen 18
							W	ells												
JC-1			X						Х		Х				X		Х	Х	Х	Х
JC-3			Χ						Χ		Χ				X					
ELD-1			X								Х									
W79-10-1B	Control of the Contro	A											X							
W79-14-2A	70												X			1.2				
W/9-26-1				ÿ						1			X	V						361
W79-35:1A	1	ď.											X							
W79-35-1B		22.0											X							
W2-1(98-2-1)			_										X				_	<u> </u>	<u> </u>	
W20-4-1 W20-4-2											ļ		X			$ldsymbol{ldsymbol{eta}}$				Ш
W20-4-2 W99-4-1						_							X			\vdash				\vdash
W99-4-1 W99-21-1	n de la constant	18 792971).1	in the same			251 3 P 2 3 3							X	Control of the contro	100 mg 120		X-309			
W20-28-4													X							an by
91-26-1													X						1,	
91-35-1										10.5			X					e i ex		
92-91-03								X					X :	i.						

^{*} Field Measurements and Laborotory Analyses are defined in Table 2.3.7-2

^aField parameters will be taken in conjunction with samples collected for Lab Analyses

¹Sites with at least two (2) years of laboratory analysis data will be sampled once every five (5) years for the currently approved laboratory parameters in Table 2.3.7-2 beginning in 2010. If field parameter monitoring indicates any trending changes, regular laboratory analysis may be resumed until trend is adequately characterized.

²2nd Quarter sampling may extend to July 15 in years when spring snow conditions do not allow access before June.

³ Baseline Lab Analysis will be conducted every five (5) years beginning in 2010 in the 3rd quarter. (ie. Years 2010, 2015, 2020, etc.)

TABLE 2.3.7-3 MONITORING STATION IDENTIFICATION

ECCLES CANYON/MUD CREEK DRAINAGES

STREAM STATIONS -	- 12 22 Stations
-------------------	-----------------------------

CS-1	CS-3	CS-4	CS-6	CS-9	CS-11	CS-15
VC-6	VC-9	VC-10	MC-1	MC-2	MC-3	MC-4
MC-5	MC-6	CS-19	CS-20	CS-21	VC-11	VC-12

MINE DISCHARGE STATIONS - 4 Stations

CS-12 (Mine #3) CS-14 (Mine #1) MD-1 (Composite CS-12 & CS-14)

SRD-1 (Total Mine Site Discharge to Eccles Creek/Scofield Reservoir)*

FRENCH DRAIN STATIONS - 1 Station CS-13

HUNTINGTON CANYON

STREAM STATIONS - 12 Stations

CS-7 (F-5) CS-8 **CS-16** CS-17 CS-18 CS-22 CS-23 UPL-10 F-10 EL-1 EL-2 F-9CS-10

WASTE ROCK DISPOSAL SITE

STREAM STATIONS - 4 Stations

WRDS #1 WRDS #2 WRDS #3 WRDS #4

SPRINGS - 26	Stations	GRO	UNDWATER STA	TIONS		
S10-1	S12-1	S13-2	S13-7	S14-4	S15-3	S17-2
S22-5	S22-11	S23-4	S24-1 Sulfur	S24-12	S26-13	S34-12
S35-8	S36-12	2-413	3-290	WQ1-39	WQ3-6	WQ3-26
WQ3-41	WQ3-43	WQ4-12	8-253	WQ1-1		
WELLS (MONIT	ORING) - 17 19	Well Stations				
W79-10-1	B W7	9-14-2A	W79-26-1	W79-3	35-1A	W79-35-1B

W79-10-1B	W79-14-2A	W79-26-1	W79-35-1A	W79-35-1B
92-91-03	W2-1(98-2-1)	W20-4-1	W20-4-2	W99-4-1
W99-21-1	W99-28-1	W20- 28-1	JC-1	JC-3
	ELD-1 (Total of JC- 1 and JC-3)*	91-26-1	91-35-1	

WELLS, CULINARY -Referenced but not monitored

W13-1 W13-2 W17-1 W17-3 W24-1

NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES)

001 Portal Area 002 Loadout Area 003 Waste Rock Area JC-3 James Canyon

^{*} Sites are monitored for total flow only and the results are reported to the Division on a monthly basis.

TABLE 2.3.7-3 MONITORING STATION IDENTIFICATION

ECCLES CANYON/MUD CREEK DRAINAGES

STREAM STATIONS - 1	2	Stations
---------------------	---	----------

CS-3 CS-6 CS-9 CS-11 CS-19 CS-20 CS-21 VC-6 VC-9 VC-10 VC-11 VC-12

MINE DISCHARGE STATIONS - 4 Stations

SRD-1 (Total Mine Site Discharge to Eccles Creek/Scofield Reservoir)*

FRENCH DRAIN STATIONS - 1 Station CS-13

HUNTINGTON CANYON

STREAM STATIONS - 12 Stations

CS-7 (F-5) CS-8 CS-10 CS-16 CS-17 CS-18 CS-22 CS-23 UPL-10 F-10 EL-1 EL-2

WASTE ROCK DISPOSAL SITE

STREAM STATIONS - 4 Stations

WRDS #1 WRDS #2 WRDS #3 WRDS #4

GROUNDWATER STATIONS

SPRINGS - 26 S	Stations	Citot	JIND WATER OTA	none.		
S10-1	S12-1	S13-2	S13-7	S14-4	S15-3	S17-2
S22-5	S22-11	S23-4	S24-1 Sulfur	S24-12	S26-13	S34-12
S35-8	S36-12	2-413	3-290	WQ1-39	WQ3-6	WQ3-26
WQ3-41	WQ3-43	WQ4-12	8-253	WQ1-1		
WELLS (MONUT	ODINO) 47.W	-II Otatiana				

WELLS (MONITORING) - 17 Well Stations

W79-10-1B	W79-14-2A	W79-26-1	W79-35-1A	W79-35-1B
92-91-03	W2-1(98-2-1)	W20-4-1	W20-4-2	W99-4-1
W99-21-1	W20- 28-1	JC-1	JC-3	91-26-1
91-35-1	ELD-1 (Total of JC- 1 and JC-3)*			

WELLS, CULINARY -Referenced but not monitored

W13-1 W13-2 W17-1 W17-3 W24-1

NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES)

001 Portal Area 002 Loadout Area 003 Waste Rock Area JC-3 James Canyon

^{*} Sites are monitored for total flow only and the results are reported to the Division on a monthly basis.

accessible earlier than June or later than October, the mine will monitor the sites. The results of the monitoring will be reported with the other required monitoring data. The purpose of this monitoring is to determine the effects, if any, on the stretches of perennial streams in the Winter Quarters Creek and Woods Canyon Creek drainage that will be subsided due to mining. Monitoring points, in perennial reaches running perpendicular to the longwall panels, are positioned above the gate-roads and center of each panel. Longwall panels are approximately 850-feet wide, creating a flow-monitoring spacing of approximately 425-feet. Monitoring points in perennial reaches running parallel to the longwall panels are spaced at Since monitoring is dependent on the timing of approximately 850-feet. mining, monitoring points will be added and dropped as mining advances. As mining advances through the perennial sections of the drainage, and the monitoring indicates no affects to flow, the Permittee may modify the spacing of the monitoring points. This monitoring will also help indicate if mitigation is required for loss of surface or ground water and, subsequently, habitat associated with the water. Spacing of monitoring sites was reduced to one (1) site per approximately 850-feet in 2009.

Skyline has conducted field studies to determine the location of the perennial portions of both Winter Quarters and Woods Canyon Creeks, though no mining is currently planned within the next five years in the Woods Canyon drainage. The perennial nature of the streams were determined using a variety of parameters including vegetation and surface flow monitoring. Field studies were initiated and completed in October and November 2002 and October 2003. Copies of the studies are included in Volume A-1 Hydrology Section. The studies will be used by the Forest in their environmental assessment of the potential effects of undermining Winter Quarters and Wood Canyon Creeks.

Sampling will continue according to Tables 2.3.7-1, 2.3.7-2, and 2.3.7-3 as approved at all surface water stations throughout the post-mining period and until the reclamation effort is determined successful by the

Revised: 07-15-0906 09 06 2-44b

accessible earlier than June or later than October, the mine will monitor the sites. The results of the monitoring will be reported with the other required monitoring data. The purpose of this monitoring is to determine the effects, if any, on the stretches of perennial streams in the Winter Quarters Creek and Woods Canyon Creek drainage that will be subsided due to mining. Monitoring points, in perennial reaches running perpendicular to the longwall panels, are positioned above the gate-roads and center of each panel. Longwall panels are approximately 850-feet wide, creating a flow-monitoring spacing of approximately 425-feet. Monitoring points in perennial reaches running parallel to the longwall panels are spaced at approximately 850-feet. Since monitoring is dependent on the timing of mining, monitoring points will be added and dropped as mining advances. As mining advances through the perennial sections of the drainage, and the monitoring indicates no affects to flow, the Permittee may modify the spacing of the monitoring points. This monitoring will also help indicate if mitigation is required for loss of surface or ground water and, subsequently, habitat associated with the water. Spacing of monitoring sites was reduced to one (1) site per approximately 850-feet in 2009.

Skyline has conducted field studies to determine the location of the perennial portions of both Winter Quarters and Woods Canyon Creeks, though no mining is currently planned within the next five years in the Woods Canyon drainage. The perennial nature of the streams were determined using a variety of parameters including vegetation and surface flow monitoring. Field studies were initiated and completed in October and November 2002 and October 2003. Copies of the studies are included in Volume A-1 Hydrology Section. The studies will be used by the Forest in their environmental assessment of the potential effects of undermining Winter Quarters and Wood Canyon Creeks.

Sampling will continue according to Tables 2.3.7-1, 2.3.7-2, and 2.3.7-3 as approved at all surface water stations throughout the post-mining period and until the reclamation effort is determined successful by the

Revised: 07-15-09